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A oligo-heteropolysaccharide is disclosed which is very active against thrombotic syndromes and is prepared starting from depolymerized heparin fractions wherein the active groups, more particularly the sulfuric groups have been reconstituted by reacting a heparin fraction with a mol wt from 2,000 to 5,000 with the sulfotrioxide of a nitrogeous organic base such as <sup>pyridine</sup>pyridine and trimethylamine. The method of preparation is also disclosed.